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US 5364560 A	19941115	Liquid crystal compound and liquid crystal display device	252/299.65	252/299.01; 349/174; 349/184; 560/102; 560/59; 560/61; 560/62; 560/65; 560/73; 560/76; 560/83; 568/631; 568/647;	Mizukami; Masamichi et al.

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US 5352382 A	19941004	Liquid crystal composition	252/299.65	252/299.01; 252/299.64; 252/299.66; 252/299.67	Johno; Masahiro et al.
US 5340498 A	19940823	Anti-ferroelectric liquid crystal and liquid crystal display device	252/299.65	560/107; 560/62; 560/65; 560/83; 568/643; 568/645	Arai; Yoshihisa et al.
US 5336681 A	19940809	Derivatives of p-substituted phenyl ester of pivalic acid	514/347	514/352; 514/357; 514/424; 514/426; 514/427; 546/294; 546/309; 546/312; 546/318; 546/334; 548/543; 548/544; 548/557; 548/558	Imaki; Katsuhiko et al.
US 5317021 A	19940531	3-mercapto-glutamic acid derivatives	514/275	514/221; 514/252.01; 514/252.03; 514/255.05; 514/352; 514/367; 514/394; 514/447; 514/472; 514/530; 514/531; 514/538; 540/573; 544/322; 544/323; 544/324; 544/325; 544/330; 544/331; 544/332; 544/335; 546/255; 546/304; 546/307; 546/308; 546/309; 546/310; 546/312;	Kawamura; Masanori et al.

				548/222; 548/304.7; 548/305.1; 548/307.4; 548/311.1; 548/311.4; 548/332.5; 548/362.1; 548/364.4; 548/365.7; 548/371.7; 549/480; 549/69; 560/10; 560/11; 560/12; 560/13; 560/16; 560/9; 562/426; 562/427; 562/429; 562/430	
US 5306474 A	19940426	Apparatus for growing single crystals	422/245.1	117/900	Kida; Michio et al.
US 5304801 A	19940419	Electron microscope	250/311		Arai; Yoshihiro
US 5304323 A	19940419	Liquid crystal devices and process for producing the same	252/299.5	252/299.01; 252/299.61; 349/186; 349/89	Arai; Yoshi et al.
US 5289384 A	19940222	Device simulator for semiconductor device	703/13		Akiyama; Yutaka
US 5287179 A	19940215	Image display system	348/445	348/383; 348/571; 348/805	Senso; Hitoshi et al.
US 5281508 A	19940125	Positive-working photoresist containing o-naphthoquinone diazide sulfonic acid ester and novolak resin consisting of 35 to 43% m-cresol and 65 to 57% p-cresol with substantial absence of o-cresol	430/192	430/165; 430/190; 430/193	Kohara; Hidekatsu et al.
US 5266877 A	19931130	Apparatus for and method of preparing numerical control data for interactive mounter	318/571	29/740; 318/513; 318/572; 700/178; 700/180; 700/86; 901/47	Takahashi; Shino et al.
US 5264150 A	19931123	Optically active alcohol, process for producing same and liquid crystal compound using	252/299.64	252/299.01; 252/299.65; 252/299.66;	Yui; Tomoyuki et al.

		same		252/299.67; 568/661	
US 5247084 A	19930921	Derivatives of p-guanidinobenzoic acid	544/159	546/221; 548/542; 548/543; 548/550; 548/556; 560/34	Imaki; Katsuhiko et al.
US 5202340 A	19930413	Amino acid derivatives	514/367	514/371; 514/372; 514/375; 514/377; 514/380; 548/163; 548/190; 548/192; 548/195; 548/206; 548/213; 548/214; 548/222; 548/245; 548/246	Kawamura; Masanori et al.
US 5196173 A	19930323	Apparatus for process for growing crystals of semiconductor materials	117/213	117/900	Arai; Yoshiaki et al.
US 5195114 A	19930316	Digital panoramic radiographic apparatus	378/40	378/168; 378/170; 378/191; 378/205; 378/39; 378/4	Sairenji; Eiko et al.
US 5191113 A	19930302	Cinnamoylamide derivatives	562/455	560/45; 560/9; 562/426	Nakai; Hisao et al.
US 5168101 A	19921201	Sulfonamide derivatives	514/530	514/538; 514/562; 514/604; 548/334.1; 548/374.1; 548/538; 560/12; 562/427; 562/430; 564/91; 564/93	Arai; Yoshinobu et al.
US 5111303 A	19920505	Video signal recording system and picture display system in a high-definition television system	386/122	386/123	Senso; Hitoshi et al.
US 5093366 A	19920303	Novel cinnamoylamide derivatives	514/563	562/441; 562/455	Nakai; Hisao et al.
US 5080873 A	19920114	Apparatus for growing crystals	117/213	117/214; 117/900;	Ono; Naoki et al.

				117/912; 117/932; 193/27; 414/208; 414/299	
US 5077428 A	19911231	Pharmacologically active derivatives of p-guanidinobenzoic acid	560/34	544/165; 548/200	Imaki; Katsuhiko et al.
US 5037852 A	19910806	Cinnamoylamide derivatives	514/563	562/455	Nakai; Hisao et al.
US 5023268 A	19910611	3-phenoxy (or phenylthio)-cyclopentanecarbonylamino acid analogues	514/400	514/419; 514/423; 514/561; 514/562; 514/563; 548/338.1; 548/496; 548/535; 562/427; 562/431; 562/435; 562/444; 562/445; 562/448	Imaki; Katsuhiko et al.
US 5017610 A	19910521	Derivatives of p-substituted phenyl ester of pivalic acid	514/546	544/158; 546/216; 546/309; 546/312; 548/252; 548/334.1; 548/341.1; 548/495; 548/539; 548/542; 549/362; 560/10; 560/12; 560/13; 560/138; 560/142; 560/34; 564/177; 564/90; 564/92	Imaki; Katsuhiko et al.
US 5017589 A	19910521	Novel amino acid derivatives	514/352	546/309	Kawamura; Masanori et al.
US 5009862 A	19910423	Apparatus and process for growing crystals of semiconductor materials	117/213	117/214; 117/217; 117/900; 117/932	Kida; Michio et al.
US 4988535 A	19910129	Magnetic recording medium	427/569	427/132; 427/250;	Arai; Yoshihiro et al.

				427/255.31; 427/576; 427/585; 428/836.3; 428/900	
US 4980372 A	19901225	Benzoylaminophenoxybutanoic acid derivatives	514/510	514/538; 514/542; 514/563; 560/10; 560/12; 560/13; 560/17; 560/45; 560/9; 562/426; 562/427; 562/428; 562/430; 562/431; 562/455	Nakai; Hisao et al.
US 4980015 A	19901225	Method for pulling single crystals	117/31	117/213; 117/33; 117/35; 117/932	Ono; Naoki et al.
US 4975464 A	19901204	Treatment of diseases caused by abnormal action of elastase	514/535	514/237.5; 514/238.8; 514/330; 514/331; 514/351; 514/353; 514/365; 514/423; 514/424; 514/517; 514/518; 514/533	Imaki; Katsuhiko et al.
US 4955255 A	19900911	Power transmission system for a motor vehicle with an automatic transmission	477/94	123/198D; 477/120; 477/904; 477/906; 477/92	Yamaashi; Shunji et al.
US 4943386 A	19900724	Liquid crystalline compounds having substituents	252/299.65	252/299.01; 560/59; 560/65; 560/66	Takehara; Sadao et al.
US 4939141 A	19900703	(Fused) benz (thio) amides and pharmaceutical compositions, thereof	514/230.5	514/249; 514/311; 514/312; 514/314; 514/381; 514/383; 514/432; 514/453;	Toda; Masaaki et al.

				514/456; 514/465; 514/469; 514/470; 544/105; 544/353; 546/153; 546/159; 548/251; 548/253; 549/15; 549/350; 549/404; 549/439	
US 4936949 A	19900626	Czochraski process for growing crystals using double wall crucible	117/31	117/213; 117/35; 117/932	Kida; Michio et al.
US 4935240 A	19900619	Benzoylaminophenoxybutanoic acid derivatives	424/400	424/422; 424/451; 424/456; 424/464; 424/478; 424/479; 424/480; 424/499; 424/501; 514/512; 514/518; 514/535; 514/554; 514/557; 514/561; 514/562; 514/563; 514/880; 560/12; 560/17; 560/19; 560/45; 562/455	Nakai; Hisao et al.
US 4916147 A	19900410	3-[(4-Aroyl) phenoxy (or phenylthio)]-cyclopentanecarboxylic acid analogues and treatment of cerebral edema therewith	514/381	514/568; 548/253; 562/460	Imaki; Katsuhiko et al.
US 4914224 A	19900403	Optically active carboxylic acid derivatives and liquid crystalline compositions comprising them	560/65	252/299.01; 252/299.65; 252/299.67; 560/59; 560/73	Shoji; Tadao et al.
US 4911862 A	19900327	Optically active carboxylic acid derivatives and liquid	252/299.65	252/299.01; 252/299.67;	Shoji; Tadao et al.

		crystalline compositions comprising them		560/59; 560/65; 560/73	
US 4888351 A	19891219	3-phenoxy (or phenylthia) cyclopentanecarbonylamino acid analogues	514/397	514/414; 514/422; 514/443; 514/469; 514/470; 548/311.4; 548/467; 548/525; 548/527; 549/466; 549/467; 549/469; 549/471; 549/49; 549/51; 549/52; 549/54; 549/55; 549/58	Imaki; Katsuhiko et al.
US 4887162 A	19891212	Facsimile machine having retransmission function	358/400	358/434; 358/443; 358/447; 714/747	Arai; Yoshihiro
US 4886894 A	19891212	Novel Organic platinum complex and process for the preparation thereof	556/40	548/403; 556/137; 987/11	Tsujihara; Kenji et al.
US 4882644 A	19891121	Magnetic head supporting mechanism	360/246.4		Kimura; Ippo et al.
US 4882447 A	19891121	Novel organic platinum complex and process for the preparation thereof	556/40	556/137; 987/11	Tsujihara; Kenji et al.
US 4882260 A	19891121	Positive-working photosensitive quinone diazide composition with alkali insoluble dye and alkali soluble dye	430/191	430/166; 430/190; 430/192	Kohara; Hidekatsu et al.
US 4879552 A	19891107	Variable capacitance type encoder	340/870.37	324/660; 324/690	Arai; Yoshihiro et al.
US 4875335 A	19891024	Apparatus and method for treating an exhaust gas from a diesel engine	60/274	55/282.3; 55/466; 55/DIG.30; 60/295; 60/311; 95/26; 95/279; 96/428	Arai; Yoshimasa et al.
US 4867507 A	19890919	Structure for fixing the terminal end of a trim cover assembly in an automotive seat	297/218.1	297/452.59	Arai; Yoshio
US 4863963	19890905	Novel cinnamoylamide	514/563	562/435;	Nakai; Hisao et

A		derivatives		562/451; 562/455	al.
US 4862170 A	19890829	Digital-analog converter	341/144	341/126	Hashimoto; Youichi et al.
US 4847275 A	19890711	(Fused) benz (thio) amides	514/382	514/434; 514/452; 548/253; 549/15; 549/362	Toda; Masaaki et al.
US 4843387 A	19890627	Variable capacitance type encoder	340/870.37	324/660	Arai; Yoshihiro et al.
US 4843094 A	19890627	Derivatives of p- guantidinobenzoic acid and pharmaceutical agents containing them as active ingredient	514/518	514/517; 558/58; 560/34	Imaki; Katsuhiko et al.
US 4840428 A	19890620	Head rest adjusting device	297/408	248/316.7; 297/391	Kobayashi; Hideo et al.
US 4835068 A	19890530	Magnetic recording medium	428/836.3	252/62.55; 252/62.56; 427/128; 427/599; 428/900	Arai; Yoshihiro et al.
US 4830867 A	19890516	Process for producing pasta sheets	426/557	426/138	Uemura; Isao et al.
US 4829078 A	19890509	3-phenoxy (or phenylthio)-- cyclopentanecarbonylamino acid analogues	514/397	514/414; 514/422; 514/438; 514/445; 514/447; 514/448; 514/471; 514/472; 514/473; 548/311.4; 548/315.1; 548/315.4; 548/338.1; 548/467; 548/517; 548/527; 549/475; 549/476; 549/478; 549/479; 549/481; 549/483; 549/63; 549/64; 549/65; 549/68; 549/72;	Imaki; Katsuhiko et al.

				549/77	
US 4828754 A	19890509	Novel liquid crystalline compounds having substituents	252/299.65	252/299.01; 252/299.67; 560/102; 560/108; 560/109; 560/20; 560/21; 560/23; 560/59; 560/65; 560/66; 560/73	Takehara; Sadao et al.
US 4800285 A	19890124	Flame detecting arrangement for detecting a flame through horizontal and vertical scanning of a supervisory region by using a photodetector	250/554	340/578	Akiba; Kouji et al.
US 4783480 A	19881108	6-keto-prostaglandin E.sub.1 derivatives	514/423	514/530; 514/570; 514/571; 514/573; 514/613; 514/621; 548/533; 549/415; 549/473; 560/118; 560/121; 560/39; 560/40; 562/444; 562/445; 562/500; 562/503; 564/169; 564/189	Wakatsuka; Hirohisa et al.
US 4783476 A	19881108	3-Phenoxy (or phenylthio)-cyclopentanecarbonylamino acid analogues	514/394	514/419; 514/562; 514/563; 548/338.1; 548/494; 548/496; 562/428; 562/444	Imaki; Katsuhiko et al.
US 4780469 A	19881025	(Fused) benz(thio)amides and pharmaceutical use	514/382	514/456; 544/105; 546/153; 546/159; 548/253; 549/15; 549/350;	Toda; Masaaki et al.

				549/362; 549/401; 549/402; 549/404; 549/439; 549/462; 549/471	
US 4755687 A	19880705	System and method for detecting flames	250/554	169/61; 340/578	Akiba; Kouji et al.
US 4750142 A	19880607	Flame detector	340/578	169/61; 250/340	Akiba; Kouji et al.
US 4747603 A	19880531	Oil seal comprising lip seal with thermal expansion controlled reinforcing ring	277/575	277/931	Sugino; Eiichi et al.
US 4731319 A	19880315	Positive-working naphthoquinone diazide photoresist composition with two cresol novolac resins	430/192	430/165; 430/193; 430/326	Kohara; Hidekatsu et al.
US 4724156 A	19880209	Method of manufacturing magnetic recording medium	427/530	427/128; 427/561	Arai; Yoshihiro et al.
US 4706760 A	19871117	Fire extinguishing condition monitoring apparatus for automatic fire extinguishing equipment	169/61	340/578	Arai; Yoshio et al.
US 4706187 A	19871110	Method of and apparatus for preparing numerical control data for inserting components	700/86	29/710; 29/740; 29/741; 361/681; 361/683; 361/684; 700/117; 716/19	Arai; Yoshinao et al.
US 4700198 A	19871013	Process for recording information by irradiation of, an deposition on, a substrate	346/25	347/226; 427/523; 427/552; 427/555	Shirahata; Ryuji et al.
US 4688852 A	19870825	Vertical adjustment device for headrest in vehicle seat	297/410	297/354.12	Arai; Yoshio et al.
US 4684057 A	19870804	Heat insulated cooking utensil	228/187	228/228; 228/235.1	Miyaji; Kenichi et al.
US 4673610 A	19870616	Magnetic recording medium having iron nitride recording layer	428/213	428/332; 428/698; 428/699; 428/828; 428/900	Shirahata; Ryuji et al.
US 4653469 A	19870331	Vacuum-heat-insulated cooking utensil and method of manufacturing same	126/390.1	220/592.27	Miyaji; Kenichi et al.
US 4652483 A	19870324	Magnetic recording medium	428/216	427/131; 427/132; 427/488; 427/502;	Arai; Yoshihiro et al.

				428/215; 428/336; 428/835.6; 428/900	
US 4652460 A	19870324	Process for preparing magnetic recording medium	427/576	427/132; 427/251; 427/296	Shirahata; Ryuji et al.
US 4643915 A	19870217	Process for producing magnetic recording medium	427/130	427/131; 427/132; 427/296	Arai; Yoshihiro et al.
US 4640931 A	19870203	3-(indian-5-yloxy (or thio)) cyclopentanecarboxylic acid analogues	514/510	514/569; 560/10; 560/53; 562/428; 562/462	Imaki; Katsuhiko et al.
US 4639815 A	19870127	Magnetic recording medium with chromiumiron protective layer	360/131	360/134; 360/135; 428/681; 428/834	Arai; Yoshihiro et al.
US 4626315 A	19861202	Process of forming ultrafine pattern	216/62	204/192.3; 216/63; 216/79; 219/121.35; 250/492.1; 250/492.2; 250/492.3; 257/E21.252; 257/E21.257; 257/E21.26; 257/E21.295; 257/E21.331; 257/E21.333; 257/E21.347; 427/597	Kitamoto; Tatsuji et al.
US 4622410 A	19861111	Bicyclo[3,3,0]octan-3-ones	549/304	549/214; 549/305; 560/121; 562/503; 564/189; 568/379	Hamanaka; Nobuyuki et al.
US 4622271 A	19861111	Magnetic recording medium	428/615	427/131; 427/132; 427/251; 427/255.7; 428/336; 428/655; 428/668; 428/675; 428/676; 428/680; 428/681; 428/836.1;	Arai; Yoshihiro et al.

				428/900; 428/928	
US 4609962 A	19860902	Magnetic recording medium having improved weather resistance	360/131	428/900	Arai; Yoshihiro et al.
US 4607687 A	19860826	Heat storage device	165/104.19	126/640; 137/592	Ohara; Shumpei et al.
US 4604260 A	19860805	Method of producing electrolytic capacitor with Al- Ti anode body	419/2	361/321.5; 361/529; 419/19; 419/23; 419/29; 419/38; 419/53; 419/54; 419/55; 419/57; 419/60; 75/232; 75/235	Shimizu; Shigeaki et al.
US 4601912 A	19860722	Method of preparing a magnetic recording medium	427/533	427/130; 427/132; 427/251; 427/255.31; 427/255.32; 427/255.7; 427/535; 427/540; 427/566; 427/569; 427/597	Arai; Yoshihiro et al.
US 4594388 A	19860610	Method of manufacturing shaped articles with excellent heat resistance and adhesiveness to rubber from a composition comprising polyester and epoxidized polybutadiene and adhering said articles to rubber	525/177	525/438	Arai; Yoshihiro
US 4589665 A	19860520	Fluorocarbon resin seal and method of making same	264/337	277/554; 277/924	Arai; Yoshio et al.
US 4580207 A	19860401	Numerical control data dividing and editing apparatus for numerical control machine tool	700/169	700/100; 700/9	Arai; Yoshinao et al.
US 4578981 A	19860401	Apparatus for supporting ram	72/347	72/349	Nishikawa; Hirotaka et al.
US 4578868 A	19860401	Digital display measuring apparatus	33/819	33/706; D10/73	Sasaki; Kohji et al.
US 4565734 A	19860121	Magnetic recording medium	428/216	360/134; 360/135; 360/136;	Arai; Yoshihiro et al.

				427/131; 427/132; 427/490; 428/336; 428/422; 428/461; 428/463; 428/469; 428/472; 428/833.1; 428/833.2; 428/900	
US 4559644 A	19851217	Image processing apparatus and method for recognizing only desired patterns	382/254	235/470; 250/566; 382/264	Kataoka; Hiroyuki et al.
US 4557944 A	19851210	Process of manufacturing a magnetic recording medium	427/537	427/130; 427/131; 427/132; 428/833.1	Arai; Yoshihiro et al.
US 4551778 A	19851105	Magnetic recording media and process of producing them	360/131	360/134; 427/490; 427/525; 427/529; 428/336; 428/835.7	Arai; Yoshihiro et al.
US 4543396 A	19850924	Method of making heat-resistant polyester with phenylene-bis-oxazoline	525/440	528/289	Arai; Yoshihiro et al.
US 4543275 A	19850924	Method of forming thin vapor deposited film of organic material	427/250	427/255.5; 427/255.6; 427/255.7; 427/497; 427/509; 427/526	Akashi; Goro et al.
US 4542378 A	19850917	Method of processing documents	345/641	358/450; 382/284	Suganuma; Saburo et al.
US 4529779 A	19850716	Method of making heat-resistant polyester with a glycidylisocyanuric acid compound	525/438	525/410; 528/289; 528/297	Arai; Yoshihiro et al.
US 4521482 A	19850604	Magnetic recording medium	428/336	204/192.2; 427/129; 427/131; 427/132; 427/250; 427/296; 427/491; 427/525; 428/412; 428/425.8; 428/457; 428/833;	Arai; Yoshihiro et al.

				428/900	
US 4520175 A	19850528	Method of making heat-resistant polyester by reacting with a N,N,diglycidyl-acidamide	525/438	528/288; 528/297	Arai; Yoshihiro et al.
US 4520174 A	19850528	Method of making heat-resistant polyester	525/438	528/288; 528/289; 528/297; 528/308.2	Arai; Yoshihiro et al.
US 4517727 A	19850521	Method of producing a porous body for electrolytic capacitor having a lead wire	29/25.03	361/529; 419/2	Shimizu; Shigeaki et al.
US 4504969 A	19850312	Rectangular pattern recognition apparatus	382/175	382/282; 382/284	Suzuki; Isao et al.
US 4503507 A	19850305	Robot control data processing apparatus	700/249	318/568.2; 318/568.23; 700/248; 901/8	Takeda; Kenji et al.
US 4495242 A	19850122	Magnetic recording medium	428/336	427/569; 427/576; 428/833.1; 428/900	Arai; Yoshihiro et al.
US 4492985 A	19850108	Beam scanning means for input/output unit	358/404	250/234; 348/523; 348/524; 348/537; 358/445; 358/476	Sato; Masato et al.
US 4479966 A	19841030	6,9-Methano-PGI2 analogues	514/58	514/530; 514/561; 536/46; 549/415; 549/422; 549/473; 549/475; 549/66; 556/441; 560/100; 560/102; 560/107; 560/116; 560/119; 560/227; 560/228; 560/256; 560/56; 562/466; 562/498; 562/501	Hayashi; Masaki et al.
US 4476000 A	19841009	Method of making a magnetic film target for sputtering	204/192.2	427/529; 427/531; 427/571;	Nagao; Makoto et al.

				427/598	
US 4472710 A	19840918	Spatula-shaped light pen	345/180	235/472.01; 382/313	Suzuki; Kazuo et al.
US 4472573 A	19840918	Nitrosourea derivative and process for preparing same	536/17.7	536/4.1	Morikawa; Tamio et al.
US 4468703 A	19840828	Image signal processing device	358/464	358/466; 358/470; 382/172; 382/272	Fujiwara; Fukumi et al.
US 4466123 A	19840814	Apparatus and method for correcting contour line pattern images	382/267	348/26; 358/464	Arai; Yoshio et al.
US 4459611 A	19840710	Image conversion system	380/243	358/448; 380/36	Arai; Yoshio et al.
US 4459392 A	19840710	Method of making and polymer of heat resistant polyester using diglycidilhydantoins, diglycidiluracils, diglycidilbarbituric and isocyanuric acids	525/438	525/440; 528/288; 528/289; 528/297	Arai; Yoshihiro et al.
US 4459391 A	19840710	Method of making and a polymer of heat resistant polyester using diglycidil substituted diimides	525/438	525/444; 528/288; 528/289; 528/292; 528/296; 528/297	Arai; Yoshihiro
US 4459390 A	19840710	Method of making and polymer of heat resistant polyester using diglycidilarylimidazolones, and diglycidilalkyl ureas	525/438	528/288; 528/289; 528/297	Arai; Yoshihiro et al.
US 4440513 A	19840403	Character shaping device	400/165.1	345/173; 382/187; 400/110; 400/479; 400/484; 400/83	Kataoka; Hiroyuki et al.
US 4434431 A	19840228	Multilevel image printing device	347/251	347/234; 347/235	Ohkubo; Tetsuo et al.
US 4430379 A	19840207	Master plate for dry lithographic printing	428/216	101/453; 101/457; 428/421; 428/422; 428/425.5; 428/447; 428/448; 428/451; 428/908; 430/272.1; 430/273.1; 430/302; 430/303; 430/496;	Hayakawa; Eizi et al.

				430/531	
US 4422153 A	19831220	Oblique projection original and oblique projection original forming apparatus and method	382/293	315/371; 348/746; 353/69; 353/70	Arai; Yoshio et al.
US 4419404 A	19831206	Magnetic recording media and process of producing them	428/336	360/134; 360/135; 360/136; 427/131; 427/132; 427/490; 427/525; 428/212; 428/409; 428/421; 428/422; 428/835.7; 428/900	Arai; Yoshihiro et al.
US 4400737 A	19830823	Apparatus for producing and reproducing embedded pattern	358/470	358/494; 382/181	Arai; Yoshio et al.
US 4399147 A	19830816	Prostaglandin 12 analogues and their pharmaceutical compositions	514/461	549/414; 549/465	Hayashi; Masaki et al.
US 4387435 A	19830607	Picture printing device	358/1.6	358/488; 382/295	Arai; Yoshio et al.
US 4374961 A	19830222	Method for manufacturing heat-stable polyesters using phosphonic acid compounds with cyclic carbonates and catalyst	525/439	524/125; 524/139; 528/176; 528/272; 528/275; 528/286	Kudo; Kazushige et al.
US 4372871 A	19830208	Nematic liquid crystals for display devices	252/299.61	252/299.5; 252/299.63; 252/299.65; 252/299.66; 252/299.67; 349/186	Toriyama; Kazuhisa et al.
US 4369076 A	19830118	Process for producing magnetic metal powder	148/105	427/127; 75/349	Miyahara; Tesshu et al.
US 4367257 A	19830104	Thin magnetic recording medium	428/220	204/192.2; 252/62.55; 365/122; 427/132; 428/336; 428/836.1; 428/900	Arai; Yoshihiro et al.
US 4358806 A	19821109	Magnetic recording and reproducing method and magnetic recording medium therefor	360/119	360/123	Arai; Yoshihiro
US 4351010 A	19820921	Magnetic recording medium having a vertical axis of easy	360/131	360/134; 360/135;	Arai; Yoshihiro

		magnetization		428/209; 428/830; 428/900	
US 4326723 A	19820427	Oil seal	277/573	277/565; 277/575	Arai; Yoshio
US 4303948 A	19811201	Image transcribing system	358/444	348/552; 358/451	Arai; Yoshio et al.
US 4298895 A	19811103	Visual image noise eliminating system	358/463	348/607; 382/275	Arai; Yoshio et al.
US 4280708 A	19810728	Sealing device for engine piston	277/453	277/467	Arai; Yoshio
US 4278688 A	19810714	Prostaglandin analogues	514/530	514/573; 536/103; 560/118; 560/121; 560/53; 562/463; 562/500; 562/503	Hayashi; Masaki et al.
US 4243233 A	19810106	Seal ring having a tapered surface, and a sealing device	277/357	277/358; 277/377; 277/433; 415/172.1; 415/174.4; 418/142	Arai; Yoshio
US 4242378 A	19801230	Method of making a decorated film with a metal layer in the form of a given pattern	427/264	216/102; 216/28; 216/33; 216/41; 427/270; 427/271	Arai; Yoshiaki
US 4241053 A	19801223	Novel nitrosoarea compounds and process for preparing the same	514/23	514/42; 536/29.12; 536/53	Tsujihara; Kenji et al.
US 4241052 A	19801223	Novel nitrosoarea compounds and process for preparing the same	514/23	514/42; 514/43; 536/29.12; 536/53	Tsujihara; Kenji et al.
US 4234597 A	19801118	6,9-Nitrilo(imino)-prostaglandin analogues	514/412	548/452	Hayashi; Masaki et al.
US 4232009 A	19801104	.omega.-Halo-PGI.sub.2 analogues	514/58	514/469; 514/573; 536/103; 536/46; 549/465	Hayashi; Masaki et al.
US 4215142 A	19800729	Prostaglandin analogues	514/530	514/573; 514/824; 514/826; 514/869; 514/926; 514/927; 536/103;	Hayashi; Masaki et al.

				549/465; 560/118; 560/121; 560/53; 562/463; 562/500; 562/503	
US 4212474 A	19800715	Seal ring having tapered surface and sealing device incorporating the same	277/362	277/364; 277/386	Arai; Yoshio
US 4212473 A	19800715	Multiple seal ring having a tapered surface, and a sealing device	277/357	277/377; 277/433	Arai; Yoshio
US 4207332 A	19800610	Prostaglandin I.sub.2 analogues	514/469	549/414; 549/421; 549/465; 549/475	Hayashi; Masaki et al.
US 4190258 A	19800226	Fluorocarbon resin seal and method of making same	277/554	277/561; 277/562; 277/570; 277/577; 277/924	Arai; Yoshio et al.
US 4182757 A	19800108	Novel nitrosourea compounds and process for preparing the same	514/25	514/589; 536/29.12; 536/53; 564/33	Tsujihara; Kenji et al.
US 4178367 A	19791211	Prostaglandin I.sub.2 analogues	514/469	536/103; 549/465; 987/157	Hayashi Masaki et al.
US 4172112 A	19791023	Method for molding a cover of synthetic resin powder material on a core of irregular surface configuration	264/113	264/120; 264/127; 264/250	Tsukagoshi; Eigoro et al.
US 4165437 A	19790821	.DELTA..sup.3 -Prostaglandin analogs	560/121	562/503	Hayashi; Masaki et al.
US 4145555 A	19790320	.DELTA..sup.3 -Prostaglandin analogs	560/53	560/55; 562/463; 562/465	Hayashi; Masaki et al.
US 4124972 A	19781114	Process and apparatus for producing yarns	57/328	57/333; 57/350	Arai; Yoshiyasu et al.
US 4115310 A	19780919	Liquid crystalline composition	252/299.2	349/178; 349/186	Sato; Hisato et al.
US 4085274 A	19780418	Process for preparing 4-oxopentadecanedioic acid	560/176	549/266; 549/267; 549/272; 549/283; 549/355; 560/127; 562/508; 562/578	Takahashi; Katuhiko et al.
US 4069656 A	19780124	Composite spun yarn and process for producing the same	57/6	57/207; 57/210;	Arai; Yoshiyasu et al.

				57/293; 57/328	
US 4048089 A	19770913	Nematic liquid crystal composition	252/299.66		Arai; Yoshi et al.
US 4005107 A	19770125	13-Oxabicyclo(10,4,0)hexadec-1(12)-en-14-one	549/283	544/176; 560/126; 560/231; 562/508; 562/867	Morinaga; Tsuyoshi et al.
US 3956168 A	19760511	Liquid crystal compositions	252/299.2	349/163	Arai; Yoshi et al.
US 3910682 A	19751007	Liquid crystal cells	349/130	252/299.2; 252/299.4; 428/1.4	Arai; Yoshi et al.
US 3909352 A	19750930	Production of yeast biomass	435/248	435/921; 435/922; 435/923; 435/924	Akiyama; Shunichi et al.
US 3893853 A	19750708	Process of preparing photoconductive poly-N-vinyl-carbazole type charge-transfer complexes	430/136	525/153; 525/326.7; 525/377; 548/440; 548/444	Nukina; Kenji et al.